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(54) **Powered variable seal diameter trocar employing a winepress mechanism**

(57) A surgical access apparatus (10) includes an access member having a longitudinal passageway (12) providing access to a tissue site. An elongated seal member (24) mounted to the access member has an orifice (34) with a variable inner dimension. The elongated seal member establishes a sealing relation about an instrument and is associated with a powered adjustment mechanism (52) for adjusting the variable inner dimension of the orifice. The powered adjustment mechanism includes trailing (48) and leading (44) hubs longitudinally spaced and adapted for relative rotation about an axis defined by the access member. A plurality of spokes (40) extends between the hubs and defines first and second minimum internal dimensions when in first and second conditions respectively upon relative rotation of the hubs. The spokes are arranged about the elongated seal member to adjust the variable inner dimension of the orifice upon relative rotation of the hubs. A powered motion generator (62) effects relative rotation between the hubs.

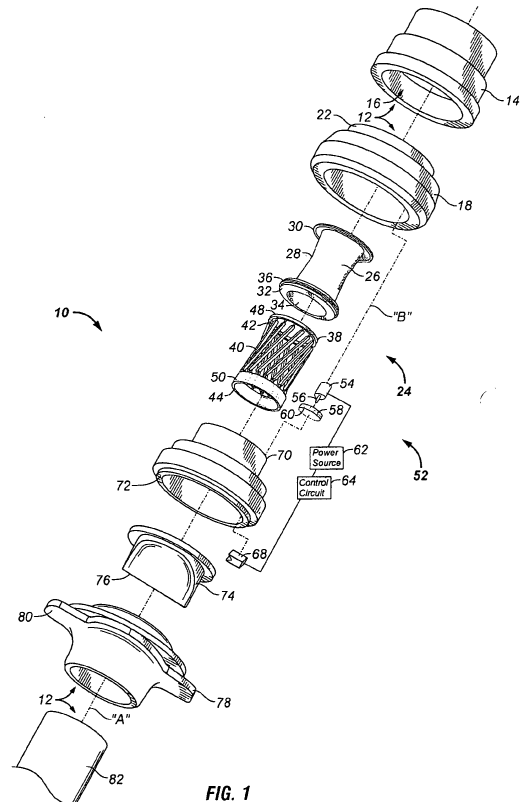


FIG. 1



EUROPEAN SEARCH REPORT

Application Number
EP 10 25 2140

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Place of search Munich		Date of completion of the search 21 November 2013	Examiner Maier, Christian
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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